

Leviathan Mine Site

Interim Combined Treatment

Upper Pond Conveyance System (UPCS) Project

Daily Report

April 25, 2017

Βv

Scott Bohman, P.E.

Safety and Environmental:

No issues with respect to Safety and Environmental.

Manpower:

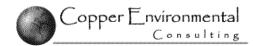
- USA crew consisted of 8 people.
- Briggs Electric Inc. (USA subcontractor) no crew were on-site today. Per USA, 3 people from Briggs will be on-site tomorrow to begin electrical work.

Work Accomplished:

- Civil/Mechanical One forklift was mobilized to the site today. Pipe materials were staged at the Pond 1/2S pump stations. Stainless steel pipe, valves, and fittings were installed at the Pond 1/2S pump stations (temporary pipe supports were used until permanent pipe supports are installed). Installation of one winch began at the south Pond 1 pedestal. Inlet suction pipe at Pond 1 was laid out and is pending connection/installation.
- Electrical None

Issues:

- Winter shutdown issues:
 - Base material under winch concrete pedestals has eroded/settled at the pond-side corners (see photos). South pedestal at Pond 1 appears to have tilted approximately 3 degrees toward pond. Other 3 pedestals at ponds do not appear to show signs of movement.
 - Resolved: additional approved fill material will be placed/compacted around the pedestals.
 - Water has entered the interior of the control panel steel support pedestals, froze,



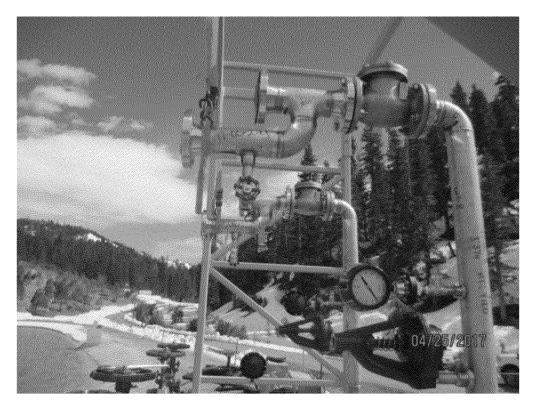
expanded, and caused swelling of the steel supports near the base. The north pedestal at Pond 1 has cracked at the corner of the pedestal (see photos). Tops of pedestals need to be capped or weepholes added to prevent water from entering the interior. Steel support repair need to be determined by control panel vendor.

- o Grout around discharge pipe at Pond 2S is cracking (see photos).
 - Resolved: grout will be removed, concrete cleaned and grout replaced.
- Earthen pipe anchors along west side of Pond 4 are eroding and allowing minor pipe movement (see photos). Earth anchors need to be repaired or re-built with additional or potentially less erodible material.
 - Resolved: additional approved fill material will be placed for the earth anchors.
- Submittal reviews in progress.
- Ponds 1 and 2S discharging through overflow pipe.

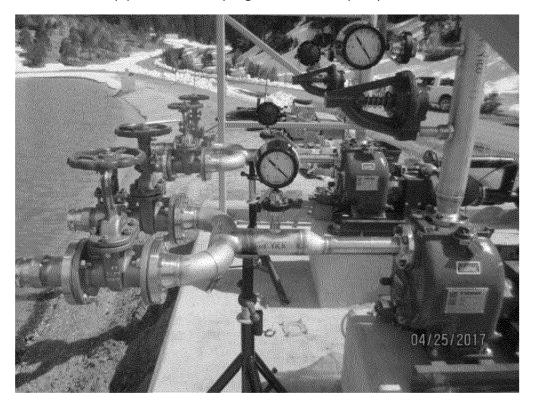
Schedule:

April 24-April 28

- Civil/Mechanical Pond 1 (on schedule)
 - Install SS Pipe Assemblies
 - o Install HDPE Piping
 - Connect Piping to Pump
 - Install Pipe Hangers and Supports
- Electrical (not started, potentially behind schedule)
 - o Installation of Feeder Breaker in HDS PWR Trailer
 - Installation of Raceway in HDS Building
 - Begin Ground Vaults at Pull Box Locations
 - o Begin Installation of Continuous Power Cable
 - Lightning Protection
 - Grounding of Rigid Conduit
 - o Complete and Test Grounding System



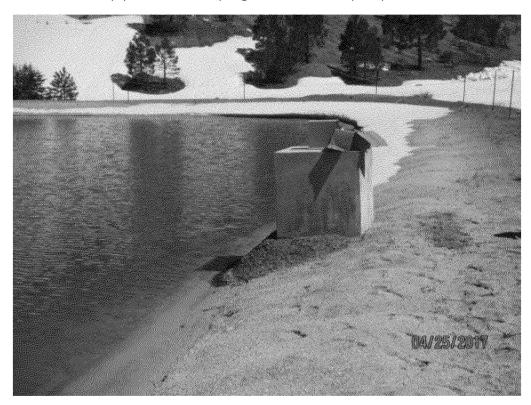
SS pipe installation progress at Pond 1 pump station.



SS pipe installation progress at Pond 1 pump station.



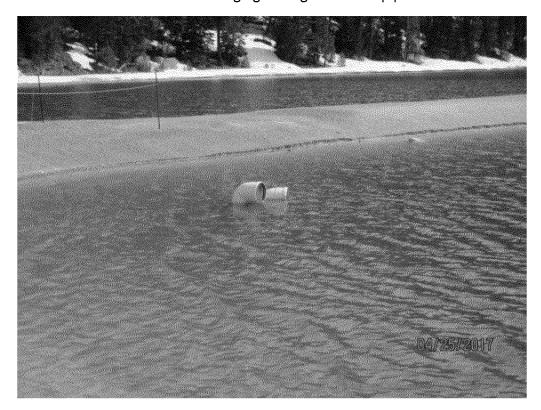
SS pipe installation progress at Pond 2S pump station.



Start of winch installation at south Pond 1 pedestal.



Pond 2S discharging through overflow pipe.



Pond 2N discharging through overflow pipe.